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PATENT APPLICATION
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R.L

HEAD-MOUNTED DISPLAY SYSTEM

Related Application

This is a Continuation-in-Part of U.S. Serial No. 08/287,970, filed on August 9, 1994, which is a Continuation-in-Part of U.S. Serial No. 08/220,042, filed on March 30, 1994 which is a Continuation-in-Part of U.S. Serial No. 08/141,133, filed on October 22, 1993; the teachings of which all being incorporated herein by reference in their entirety.

Continuation of application NO. 08/177,536, filed 9/23/1996, now abandoned, which is continuation of application NO. 08/327,113, filed on 10/21/1994, now abandoned, which is

10 Background of the Invention

Head mounted display systems have been developed for a number of different applications including use by aircraft pilots and for simulation such as virtual imaging. Head mounted displays are generally limited by their resolution and by their size and weight.

Existing displays have relatively low resolution, and because of the size and weight of available systems, these displays are often positioned at the relatively large distance from the eye. Of particular importance, is the desirability of keeping the center of gravity of the display from extending upward and forward from the center of gravity of the head and neck of the wearer, where it will place a large torque on the wearer's neck and may bump into other instruments during use.

There is a continuing need to present images to the wearer of a helmet mounted display in high-resolution format similar to that of a computer monitor. The display needs to be as non-intrusive as possible, leading to the need for lightweight and compact system. Existing head mounted displays have